CLAIMS:

1.   An apparatus comprising a receiving device for receiving data, the apparatus including a bad data detection device for producing a signal indicating bad data and a data reconstruction device triggered by said indication signal for reconstructing the bad data, characterized in that the reconstruction device comprises means for reconstructing waveforms based on previously received data and for reconstructing lacking data by extrapolation of said waveforms.

2.   An apparatus as claimed in claim 1, whose receiving device receives data in the form of frames for which the bad data indication signal is active for a bad frame, characterized in that the reconstruction device produces reconstructed data for replacing the whole frame that has been declared bad.

3.   An apparatus as claimed in one of the claims 1 to 2, characterized in that said waveforms are standardized during a time period called reference period before extrapolation and in that the reconstructed waveform is destandardized as a function of an extrapolated duration.

4.   An apparatus as claimed in one of the claims 1 to 3, characterized in that the reconstruction device comprises an adder of noise whose magnitude is based on the degree of correlation between the waveforms already passed.

5.   An apparatus as claimed in one of the claims 1 to 4, characterized in that the reference period is based on the period of the highest possible waveforms.

6.   An apparatus as claimed in one of the claims 1 to 5, characterized in that it satisfies the GSM and/or UMTS standard.

7.   A data reconstruction method implemented in the apparatus as claimed in one of the claims 1 to 6, characterized in that it comprises the following steps:

-        storage of a certain number of data

-        determination of waveforms based on these stored data

-        determination of the period of these waveforms,

-        possible standardization during a same period called reference period of these

5 waveforms,

-        reconstruction of waveforms established via correlation with already

established waveforms, on the basis of the reference period,

-        reconstruction of the period of the reconstructed waveforms based on the

period of the already established waveforms,

10 -   destandardization of the reconstructed waveforms, and

-        replacement of bad data by the reconstructed and destandardized waveforms.